

## ABSTRACT OF THE DISCLOSURE

To cancel in-phase components acting on vibrators of first and second sensor units in an angular velocity sensing direction Y, a differential amplification circuit obtains a differential waveform between a first angular velocity sensing waveform J1 and a second angular velocity waveform J2. Furthermore, to reduce a residual in-phase component of the obtained differential waveform, input gain adjusting circuits adjust an input gain of the first angular velocity sensing waveform J1 and an input gain of the second angular velocity sensing waveform J2 before these waveforms J1 and J2 are entered into the differential amplification circuit.